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5. (Amended) A method for diagnosing the normality/abnormality of an output of an installed photovoltaic power system, comprising the steps of:

calculating a reference output characteristic at the time of normal operation in accordance with an installation condition of said photovoltaic power system;

measuring an output characteristic in said photovoltaic power system obtained during operation;

951 comparing the calculated reference output characteristic with the measured output characteristic; and

diagnosing the normality/abnormality of the output of said photovoltaic power system based on the comparison result.

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9. (Amended) A method for diagnosing the normality/abnormality of an output of a photovoltaic power system, comprising the step of:

952 diagnosing the normality/abnormality of the output of said photovoltaic power system during operation based on a past measurement result of an output characteristic of said photovoltaic power system.

10. (Amended) A method for diagnosing the normality/abnormality of an output of a photovoltaic power system, comprising the steps of:

obtaining a reference output characteristic at the time of normal operation in accordance with a past measurement result of an output characteristic of said photovoltaic power system;

measuring an output characteristic in said photovoltaic power system during operation;  
comparing the obtained reference output characteristic with the measured output characteristic; and  
diagnosing the normality/abnormality of the output of said photovoltaic power system based on the comparison result.

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16. (Amended) An apparatus for carrying out a diagnosis of the normality/abnormality of an output of an installed photovoltaic power system and/or a diagnosis of the cause whenever the output of said photovoltaic power system is abnormal, comprising:

a storage unit for storing a reference output characteristic which has been obtained in advance in accordance with an installation condition of said photovoltaic power system;

a measurement unit for measuring an output characteristic in said photovoltaic power system during operation; and

a comparison unit for comparing the reference output characteristic stored in said storage unit with the measured output characteristic obtained by said measurement unit,

wherein said photovoltaic power system is diagnosed as normal only if said measured output characteristic is greater than a first predetermined value and less than a second predetermined value, said first and second predetermined values being based on said reference output characteristic.

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19. (Amended) An apparatus for carrying out a diagnosis of the normality/abnormality of an output of an installed photovoltaic power system and/or a diagnosis of the cause in the case that the output of said photovoltaic power system is abnormal, comprising:

an input unit for accepting an input of an installation condition of said photovoltaic power system;

Q54 a calculation unit for calculating a reference output characteristic of said photovoltaic power system, in accordance with the installation condition inputted to said input unit;

a measurement unit for measuring an output characteristic in said photovoltaic power system during operation; and

a comparison unit for comparing the reference output characteristic calculated by said calculation unit with the measured output characteristic obtained by said measurement unit.

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22. (Amended) An apparatus for carrying out a diagnosis of the normality/abnormality of an output of a photovoltaic power system, comprising:

Q55 a storage unit for storing a past measurement result of an output characteristic of said photovoltaic power system; and

a diagnosis unit for diagnosing the normality/abnormality of the output of said photovoltaic power system based on the measurement result stored in said storage unit.

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